

RAW SEQUENCE LISTING

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Application Serial Number: 10/517,565
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RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/517,565

DATE: 12/20/2004

TIME: 15:09:26

Input Set : A:\64830-06.ST25.txt
 Output Set: N:\CRF4\12202004\J517565.raw

3 <110> APPLICANT: The Government of the United States of America as
 4 represented by the Secretary of the Department of Health and
 5 Human Services
 6 University of Massachusetts Medical Center
 7 Moss, Joel
 8 Stevens, Linda
 9 Bourgeois, Christelle
 10 Bortell, Rita
 12 <120> TITLE OF INVENTION: TRYPTOPHAN AS A FUNCTIONAL REPLACEMENT FOR ADP-RIBOSE-
 ARGININE IN
 13 RECOMBINANT PROTEINS
 15 <130> FILE REFERENCE: 4239-64830-06
 C--> 17 <140> CURRENT APPLICATION NUMBER: US/10/517,565
 C--> 17 <141> CURRENT FILING DATE: 2004-12-07
 17 <150> PRIOR APPLICATION NUMBER: PCT/US2003/020498
 18 <151> PRIOR FILING DATE: 2003-06-27
 20 <150> PRIOR APPLICATION NUMBER: US 60/393,033
 21 <151> PRIOR FILING DATE: 2002-06-28
 23 <160> NUMBER OF SEQ ID NOS: 22
 25 <170> SOFTWARE: PatentIn version 3.3
 27 <210> SEQ ID NO: 1
 28 <211> LENGTH: 94
 29 <212> TYPE: PRT
 30 <213> ORGANISM: Homo sapiens
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 38 Ala Gln Ala Glu Pro Leu Gln Ala Arg Ala Asp Glu Val Ala Ala Ala
 39 20 25 30
 42 Pro Glu Gln Ile Ala Ala Asp Ile Pro Glu Val Val Val Ser Leu Ala
 43 35 40 45
 46 Trp Asp Glu Ser Leu Ala Pro Lys His Pro Gly Ser Arg Lys Asn Met
 47 50 55 60
 50 Asp Cys Tyr Cys Arg Ile Pro Ala Cys Ile Ala Gly Glu Arg Arg Tyr
 51 65 70 75 80
 54 Gly Thr Cys Ile Tyr Gln Gly Arg Leu Trp Ala Phe Cys Cys
 55 85 90
 58 <210> SEQ ID NO: 2
 59 <211> LENGTH: 30
 60 <212> TYPE: PRT
 61 <213> ORGANISM: Homo sapiens
 63 <400> SEQUENCE: 2
 65 Ala Cys Tyr Cys Arg Ile Pro Ala Cys Ile Ala Gly Glu Arg Arg Tyr
 66 1 5 10 15

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69 Gly Thr Cys Ile Tyr Gln Gly Arg Leu Trp Ala Phe Cys Cys
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74 <211> LENGTH: 29
75 <212> TYPE: PRT
76 <213> ORGANISM: Homo sapiens
78 <400> SEQUENCE: 3
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81 1 5 10 15
84 Thr Cys Ile Tyr Gln Gly Arg Leu Trp Ala Phe Cys Cys
85 20 25
88 <210> SEQ ID NO: 4
89 <211> LENGTH: 30
90 <212> TYPE: PRT
91 <213> ORGANISM: Homo sapiens
93 <400> SEQUENCE: 4
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103 <210> SEQ ID NO: 5
104 <211> LENGTH: 96
105 <212> TYPE: PRT
106 <213> ORGANISM: Homo sapiens
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111 1 5 10 15
114 Val Arg Ala Gly Pro Leu Gln Ala Arg Gly Asp Glu Ala Gly Gln Glu
115 20 25 30
118 Gln Arg Gly Pro Glu Asp Gln Asp Ile Ser Ile Ser Phe Ala Trp Asp
119 35 40 45
122 Lys Ser Ser Ala Leu Gln Val Ser Gly Ser Thr Arg Gly Met Val Cys
123 50 55 60
126 Ser Cys Arg Leu Val Phe Cys Arg Arg Thr Glu Leu Arg Val Gly Asn
127 65 70 75 80
130 Cys Leu Ile Gly Gly Val Ser Phe Thr Tyr Cys Cys Thr Arg Val Asp
131 85 90 95
134 <210> SEQ ID NO: 6
135 <211> LENGTH: 34
136 <212> TYPE: PRT
137 <213> ORGANISM: Homo sapiens
139 <400> SEQUENCE: 6
141 Val Cys Ser Cys Arg Leu Val Phe Cys Arg Arg Thr Glu Leu Arg Val
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145 Gly Asn Cys Leu Ile Gly Gly Val Ser Phe Thr Tyr Cys Cys Thr Arg
146 20 25 30
149 Val Asp
153 <210> SEQ ID NO: 7
154 <211> LENGTH: 94

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155 <212> TYPE: PRT
156 <213> ORGANISM: Homo sapiens
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164 Ala Gln Ala Glu Ser Leu Gln Glu Arg Ala Asp Glu Ala Thr Thr Gln
165 20 25 30
168 Lys Gln Ser Gly Glu Asp Asn Gln Asp Leu Ala Ile Ser Phe Ala Gly
169 35 40 45
172 Asn Gly Leu Ser Ala Leu Arg Thr Ser Gly Ser Gln Ala Arg Ala Thr
173 50 55 60
176 Cys Tyr Cys Arg Thr Gly Arg Cys Ala Thr Arg Glu Ser Leu Ser Gly
177 65 70 75 80
180 Val Cys Glu Ile Ser Gly Arg Leu Tyr Arg Leu Cys Cys Arg
181 85 90
184 <210> SEQ ID NO: 8
185 <211> LENGTH: 31
186 <212> TYPE: PRT
187 <213> ORGANISM: Homo sapiens
189 <400> SEQUENCE: 8
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195 Gly Val Cys Glu Ile Ser Gly Arg Leu Tyr Arg Leu Cys Cys Arg
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201 <212> TYPE: PRT
202 <213> ORGANISM: Homo sapiens
204 <400> SEQUENCE: 9
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207 1 5 10 15
210 Ala Lys Ala Glu Pro Leu Gln Ala Glu Asp Asp Pro Leu Gln Ala Lys
211 20 25 30
214 Ala Tyr Glu Ala Asp Ala Gln Glu Gln Arg Gly Ala Asn Asp Gln Asp
215 35 40 45
218 Phe Ala Val Ser Phe Ala Glu Asp Ala Ser Ser Ser Leu Arg Ala Leu
219 50 55 60
222 Gly Ser Thr Arg Ala Phe Thr Cys His Cys Arg Arg Ser Cys Tyr Ser
223 65 70 75 80
226 Thr Glu Tyr Ser Tyr Gly Thr Cys Thr Val Met Gly Ile Asn His Arg
227 85 90 95
230 Phe Cys Cys Leu
231 100
234 <210> SEQ ID NO: 10
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236 <212> TYPE: PRT
237 <213> ORGANISM: Homo sapiens
239 <400> SEQUENCE: 10
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246 20 25 30
249 <210> SEQ ID NO: 11
250 <211> LENGTH: 275
251 <212> TYPE: PRT
252 <213> ORGANISM: Rattus norvegicus
254 <400> SEQUENCE: 11
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257 1 5 10 15
260 Gln Val Thr Gly Leu Thr Gly Pro Leu Met Leu Asp Thr Ala Pro Asn
261 20 25 30
264 Ala Phe Asp Asp Gln Tyr Glu Gly Cys Val Asn Lys Met Glu Glu Lys
265 35 40 45
268 Ala Pro Leu Leu Lys Glu Asp Phe Asn Lys Ser Glu Lys Leu Lys
269 50 55 60
272 Val Ala Trp Glu Glu Ala Lys Lys Arg Trp Asn Asn Ile Lys Pro Ser
273 65 70 75 80
276 Met Ser Tyr Pro Lys Gly Phe Asn Asp Phe His Gly Thr Ala Leu Val
277 85 90 95
280 Ala Tyr Thr Gly Ser Ile Gly Val Asp Phe Asn Arg Ala Val Arg Glu
281 100 105 110
284 Phe Lys Glu Asn Pro Gly Gln Phe His Tyr Lys Ala Phe His Tyr Tyr
285 115 120 125
288 Leu Thr Arg Ala Leu Gln Leu Leu Ser Asn Gly Asp Cys His Ser Val
289 130 135 140
292 Tyr Arg Gly Thr Lys Thr Arg Phe His Tyr Thr Gly Ala Gly Ser Val
293 145 150 155 160
296 Arg Phe Gly Gln Phe Thr Ser Ser Ser Leu Ser Lys Thr Val Ala Gln
297 165 170 175
300 Ser Pro Glu Phe Phe Ser Asp Asp Gly Thr Leu Phe Ile Ile Lys Thr
301 180 185 190
304 Cys Leu Gly Val Tyr Ile Lys Glu Phe Ser Phe Tyr Pro Asp Gln Glu
305 195 200 205
308 Glu Val Leu Ile Pro Gly Tyr Glu Val Tyr Gln Lys Val Arg Thr Gln
309 210 215 220
312 Gly Tyr Asn Glu Ile Phe Leu Asp Ser Pro Lys Arg Lys Lys Ser Asn
313 225 230 235 240
316 Tyr Asn Cys Leu Tyr Ser Ser Ala Gly Thr Arg Glu Ser Cys Val Ser
317 245 250 255
320 Leu Phe Leu Val Val Leu Thr Ser Leu Leu Val Gln Leu Leu Cys Leu
321 260 265 270
324 Ala Glu Pro
325 275
328 <210> SEQ ID NO: 12
329 <211> LENGTH: 275
330 <212> TYPE: PRT
331 <213> ORGANISM: Rattus norvegicus
333 <400> SEQUENCE: 12

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335 Met Pro Ser Asn Ile Cys Lys Phe Phe Leu Thr Trp Trp Leu Ile Gln
336 1 5 10 15
339 Gln Val Thr Gly Leu Thr Gly Pro Leu Met Leu Asp Thr Ala Pro Asn
340 20 25 30
343 Ala Phe Asp Asp Gln Tyr Glu Gly Cys Val Asn Lys Met Glu Glu Lys
344 35 40 45
347 Ala Pro Leu Leu Leu Gln Glu Asp Phe Asn Met Asn Ala Lys Leu Lys
348 50 55 60
351 Val Ala Trp Glu Glu Ala Lys Lys Arg Trp Asn Asn Ile Lys Pro Ser
352 65 70 75 80
355 Arg Ser Tyr Pro Lys Gly Phe Asn Asp Phe His Gly Thr Ala Leu Val
356 85 90 95
359 Ala Tyr Thr Gly Ser Ile Ala Val Asp Phe Asn Arg Ala Val Arg Glu
360 100 105 110
363 Phe Lys Glu Asn Pro Gly Gln Phe His Tyr Lys Ala Phe His Tyr Tyr
364 115 120 125
367 Leu Thr Arg Ala Leu Gln Leu Leu Ser Asn Gly Asp Cys His Ser Val
368 130 135 140
371 Tyr Arg Gly Thr Lys Thr Arg Phe His Tyr Thr Gly Ala Gly Ser Val
372 145 150 155 160
375 Arg Phe Gly Gln Phe Thr Ser Ser Ser Leu Ser Lys Lys Val Ala Gln
376 165 170 175
379 Ser Gln Glu Phe Phe Ser Asp His Gly Thr Leu Phe Ile Ile Lys Thr
380 180 185 190
383 Cys Leu Gly Val Tyr Ile Lys Glu Phe Ser Phe Arg Pro Asp Gln Glu
384 195 200 205
387 Glu Val Leu Ile Pro Gly Tyr Glu Val Tyr Gln Lys Val Arg Thr Gln
388 210 215 220
391 Gly Tyr Asn Glu Ile Phe Leu Asp Ser Pro Lys Arg Lys Lys Ser Asn
392 225 230 235 240
395 Tyr Asn Cys Leu Tyr Ser Ser Ala Gly Ala Arg Glu Ser Cys Val Ser
396 245 250 255
399 Leu Phe Leu Val Val Leu Pro Ser Leu Leu Val Gln Leu Leu Cys Leu
400 260 265 270
403 Ala Glu Pro
404 275
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408 <211> LENGTH: 59
409 <212> TYPE: DNA
410 <213> ORGANISM: Artificial sequence
412 <220> FEATURE:
413 <223> OTHER INFORMATION: Primer
415 <400> SEQUENCE: 13
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419 <210> SEQ ID NO: 14
420 <211> LENGTH: 50
421 <212> TYPE: DNA
422 <213> ORGANISM: Artificial sequence
424 <220> FEATURE:

VERIFICATION SUMMARY
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L:17 M:270 C: Current Application Number differs, Replaced Current Application No
L:17 M:271 C: Current Filing Date differs, Replaced Current Filing Date